ABSTRACT

The present invention provides a server load balancing apparatus using MPLS session labels. The server load balancing apparatus includes a packet analyzing unit, a load balancing processing unit, a session label switching unit, a session managing unit, and a session label managing unit. The packet analyzing unit inspects whether a session label has been attached to a received packet, analyzes header information of the received packet to learn session information, and attaches a session label to a header of the received packet. The load balancing processing unit assigns a server to a session of the received packet without the session label attached. The session label switching unit hardware-switches the received packet with the session label attached using only the session label information. The session managing unit manages and maintains relevant information and states of sessions. The session label managing unit manages the session label.